



Starters 10 mins

Announcements.....3 mins

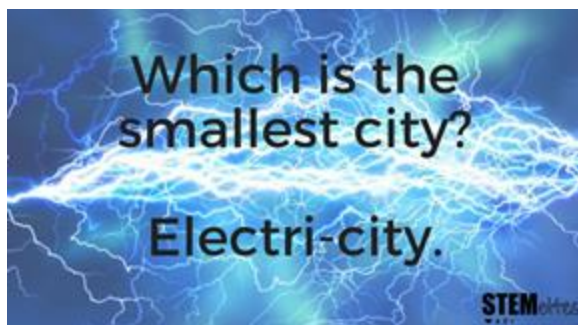
Check OtotheB and Announcements on MightyNetworks for the latest news.

Snack, Cackle & Pop..... 2 mins

Eat: Jaffa Cakes, yummy!

Listen: 'God's Plan' by Drake

Science Joke:



Meet Her..... 5 mins

Dr Ozak Esu is an electrical engineer at Cundall. She designs sustainable solutions for buildings. In December 2017 she was named IET's Young Woman Engineer of the Year.

Watch..... 2 mins

<https://www.youtube.com/watch?v=MOroPeL-82k>

Discuss after the video 3mins

- ★ What is the role of an electrical engineer?
- ★ How many electrical items are in the room you are in?
- ★ What is electricity?

Desserts 5 mins

Digest..... 2 mins

Do the #033 Digest on OtotheB and MightyNetworks or bit.ly/digest033

Mains 15 mins - choose ONE only

MAKE..... 15 mins

Take the layout of your school/ college and design it to be more environmentally friendly. Think about:

- ★ Sustainable energy sources
- ★ How to stop heat escaping
- ★ Recycling

EXPLORE..... 15 mins

Read the instructions below to create circuits:

1.) Members stand in a circle, you are now a circuit. One member is a battery; all batteries have a positive (left hand) and a negative end (right hand)

2.) Everyone else is a wire conductor full of electrons. Distribute any object to each member including the battery - these represent electrons

3.) Closed Circuit: everyone pass electrons to their right/negative end. Continue passing electrons to the right, this is how electrons flow in closed circuits

4.) Open Circuit: spread members out to create a gap so they can't pass the object. When a switch is off the circuit is open; when the switch on, the circuit is complete - can you create this?

5.) Short Circuit: create a line of members between the battery and last member in the circuit. This will create an intersection where some members will not pass the object (a short circuit).

Draw diagrams of the circuits you created.

Share with us 2 mins

Upload a photo of your MAKE or EXPLORE to the online forum. Or tweet/instagram it (remember to tag us @stemettes).